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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Group Art Unit 1641

In re Patent Application of

Eric Henderson, et al.

Application No. 10/541,013

Confirmation No.: 9052

Filed: June 28, 2005

Examiner: Unknown

"METHOD AND APPARATUS FOR
MOLECULAR ANALYSIS IN SMALL
SAMPLE VOLUMES"

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR §1.97(b)

Mail Stop Amendment
Commissioner for Patents
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Alexandria, VA 22313-1450

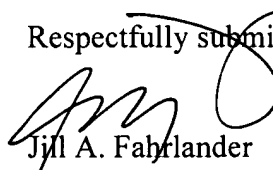
Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO/SB/08A and PTO/SB/08B and copies of non-U.S. patent references are attached.

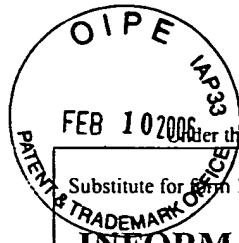
Citation of these references is respectfully requested.

No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

Respectfully submitted,


Jill A. Fahrlander
Reg. No. 42,518

File No. 016348-9048-US00
Michael Best & Friedrich LLP
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Substitute for Form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 7

Complete if Known

Application Number	10/541,013
Filing Date	June 28, 2005
First Named Inventor	Eric Henderson
Group Art Unit	1641
Examiner Name	Unknown
Attorney Docket Number	016348-9048-US00

U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
	4,728,591	Clark et al.	3/1/1988
	5,106,729	Lindsay et al.	4/21/1992
	5,138,174	Tang	8/11/1992
	5,143,854	Pirrung et al.	9/1/1992
	5,150,392	Hohn et al.	9/22/1992
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	5,346,683	Green et al.	9/13/1994
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Sheet	2	of	7	Attorney Docket Number	016348-9048-US00

U.S. PATENT DOCUMENTS

Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
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		5,874,219	Rava et al.	2/23/1999
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Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
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	JP	7027771	HITACHI LTD.	1/31/1995		

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Sheet	6	of	7	Attorney Docket Number	016348-9048-US00

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FOREIGN PATENT DOCUMENTS

Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
	JP	6124680	JEOL LTD.	1994		
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	WO	96/31775	OSCARSSON	10/10/1996		
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	WO	98/05920	WILLIAM MARSH RICE UNIVERSITY (COLBERT)	2/12/1998		
	WO	98/18959	PASTEUR INSTITUTE	5/7/1998		
	WO	99/31267	SEPRACOR INC.	6/24/1999		
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	WO	00/04382	ZYOMYX, INC.	1/27/2000		
	WO	00/04389	ZYOMYX, INC.	1/27/2000		
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	WO	00/36136	PALATIN TECHNOLOGIES, INC.	6/22/2000		
	WO	00/41213	NORTHWESTERN UNIVERSITY	7/13/2000		
	WO	00/46406	ALPHAGENE, INC.	8/10/2000		
	WO	01/60316	OSCARSSON, SVEN	8/23/2001		
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	WO	03/001633	NORTHWESTERN UNIVERSITY	1/3/2003		

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Examiner Name	Unknown					
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FOREIGN PATENT DOCUMENTS

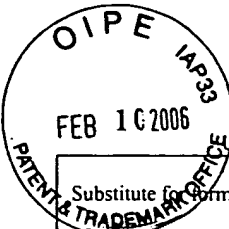
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
	WO	03/036767	UNIVERSITY OF ILLINOIS	5/1/2003		
	WO	03/038033	NORTHWESTERN UNIVERSITY	5/8/2003		
	WO	03/048314	MIRKIN	6/12/2003		
	WO	03/052514	NORTHWESTERN UNIVERSITY	6/26/2003		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Filing Date	June 28, 2005
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				Group Art Unit	1641
				Examiner Name	Unknown
				Attorney Docket Number	016348-9048-US00
Sheet	1	of	28		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		"Microbeam Mass Spectrometry" Chemical Science and Technology Laboratory, Surface and Microanalysis Science Division http://www.cstl.nist.gov/div837/Divisoin/expertise/ions/masspec1.htm 7/18/2002.
		Abstracts of Papers Part I, 214 th "Abstract 027" ACS National Meeting American Chemical Society, September 1997, 2 pgs.
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		ALVES, <i>et al.</i> , "Atomic scale imaging of alkanethiolate monolayers at gold surfaces with atomic force microscopy: <i>J. Am. Chem. Soc.</i> , February 1992, 114(4):1222-1227.
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		AUSUBEL, F.M., <i>et al.</i> "Current Protocols in Molecular Biology" 1993 ed. Vol. 1&2, 1993, Green Publishing Associates and Wiley-Interscience.

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		BAILEY, C.P., <i>et al.</i> , Cationic oligonucleotides can mediate specific inhibition of gene expression in <i>Xenopus oocytes</i> " <i>Nuc. Acids Res.</i> , 1998, 26(21):4860-4867.
		BAIN, <i>et al.</i> , "Modeling organic surfaces with self-assembled monolayers" <i>Agnew. Chem. Int. Ed. Engl.</i> , 1989, 28(4):506-512.
		BASELT, D.R., <i>et al.</i> , "A biosensor based on magnetoresistance technology" <i>Biosens. Bioelectorn</i> , 1998, 13(7-8):731-739.
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		BENSIMON, A., <i>et al.</i> , "Alignment and sensitive detection of DNA by a moving interface" <i>Science</i> , 1994, Sep 30; 265(5181):2096-2098 [PMID 7522347] Abstract.
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				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	3	of	28	Attorney Docket Number	016348-9048-US00

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		BINNING, <i>et al.</i> , "Surface studies by scanning tunneling microscopy" <i>Phys. Rev. Lett.</i> , 1982, 49(1):57-61.
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		BUSCH, K.L., "Desorption Ionization Mass Spectrometry," <i>J. Mass Spectrometry</i> (1995) 30:233-240
		BUSTAMANTE C., <i>et al.</i> , "Circular DNA Molecules Imaged in Air by Scanning Force Microscopy" <i>Biochemistry</i> , 1992, 31:22-26
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		COLLINS, <i>et al.</i> , "Nanotube Device" <i>Science</i> , 3 October 1997, 278:100-103.
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		DING, Y., RUGGERO, M. <i>et al.</i> , "Development of UHV-STM/TOF hybrid mass analyzer system for nano-characterization of metal silicide surfaces" 198th Meeting of the Electrochemical Society, Phoenix, Arizona (2000).
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		FAN, S., <i>et al.</i> , "Self-oriented regular arrays of carbon nanotubes and their functional devices" <i>Science</i> , 1999, 283, 512.

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		FANG, <i>et al.</i> , "Membrane Protein Microarrays" <i>JACS</i> , 2002, 124(11):2394-2395.
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		FRITZSCHE, W., <i>et al.</i> , "Chicken Erythrocyte Nucleosomes Have a Defined Orientation along the Linker DNA-A Scanning Force Microscopy Study" <i>Scanning</i> , 1997, 19:42-47.
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		GRABAR, <i>et al.</i> , "Preparation and characterization of Au colloid monolayers" <i>Anal. Chem.</i> , 1995, 67(4):735-743.
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		HOH, J.H., and HANSMA, P.K., "Atomic force microscopy for high resolution imaging in cell biology" <i>Trends in Cell Biology</i> , 1992, 2:208-213.

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				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	12	of	28	Attorney Docket Number	016348-9048-US00

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		HUCK, <i>et al.</i> , "Patterned polymer multilayers as etch resists" <i>Langmuir</i> , 1999, 15:6862-6867.
		IVANISEVIC, <i>et al.</i> , "Dip-Pen Nanolithography on Semiconductor Surfaces" <i>J. Am. Chem. Soc.</i> , 2001, 123:7887-7889.
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		JACKMAN, <i>et al.</i> , "Fabrication of submicrometer features on curved substrates by microcontact printing" <i>Science</i> , 1995, 269: 664-666.
		JAMES, <i>et al.</i> , "Patterned protein layers on solid substrates by thin stamp microcontact printing" <i>Langmuir</i> , 1998, 14:741-744.
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		JASCHKE, <i>et al.</i> , "Deposition of organic material by the tip of a scanning force microscope" <i>Langmuir</i> , 1995, 11:1061-1064.
		JIN, X., UNERTL, W., "Submicrometer modification of polymer surfaces with a surface force microscope" <i>Applied Physics Letters</i> , 1992, 61(6): 657-659.
		JONES, V., <i>et al.</i> , "Microminiaturized Immunoassays Using Atomic Force Microscopy and Compositionally Patterned Antigen Arrays 66" <i>Anal. Chem.</i> , 1998, 70(7):1233-1241.

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				Application Number	10/541,013
				Filing Date	June 28, 2005
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		KARPOVICH, <i>et al.</i> , "Direct measurement of the adsorption kinetics of alkanethiolate self-assembled monolayers on microcrystalline gold surface" <i>Langmuir</i> , 1994, 10:3315-3322.
		KIM, <i>et al.</i> , "Nanotube nanotweezers" <i>Science</i> , 10 December 1999, 286:2148-2150.
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		KONG, <i>et al.</i> , "Nanotube Molecular Wires as Chemical Sensors" <i>Science</i> , 28 January 2000, 287:622-625.
		KUMAR, <i>et al.</i> , "The use of self-assembled monolayers and a selective etch to generate patterned gold features" <i>J. Am. Chem. Soc.</i> , 1992, 114:9188-9189.
		LAHIRI, <i>et al.</i> , "Patterning ligands on reactive SAMs by microcontact printing" <i>Langmuir</i> , 1999, 15:2055-2060.
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		LAL, R. and JOHN, S.A., "Biological applications of atomic force microscopy" <i>Am J. Physiology</i> , 1994, 266(1):1-21.
		LANIO, T., <i>et al.</i> , "PCR-based random mutagenesis method using spiked oligonucleotides to randomize selected parts of gene without any wild-type background" <i>Biotechniques</i> , 1998, 25(6):958-965.
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		LERCEL, <i>et al.</i> "Self-assembled monolayer electron-beam resists on GaAs and SiO ₂ " <i>J. Vac. Sci. Technol. B.</i> , 1993, 11(6): 2823-2828.
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		LI, Y. <i>et al.</i> , "Electrochemical AFM "Dip-Pen" Nanolithography" <i>J. Am. Chem. Soc.</i> 2001, 123:2105-2106.
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		LÜTHI, <i>et al.</i> , "Parallel nanodevice fabrication using a combination of shadow mask and scanning probe methods: <i>Applied Physics Letters</i> , 1999, 75(9):1314-1316.
		LUTWYCHE, <i>et al.</i> , "5X5 2D AFM cantilever arrays a first step toward Terabit storage device" <i>Sensors and Actuators</i> , 1999, 73:89-94.
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		MACAYA, <i>et al.</i> , "Thrombin-binding DNA aptamer forms a unimolecular quadruplex structure in solution" <i>PNAS USA</i> , April 1993, 90:3745-3749.
		MacBEATH, G. and SCHREIBER, S.L., "Printing Proteins as Microarrays for High-Throughput Function Determination" <i>Science</i> , 8 September 2000, 289:1760-1763.
		MAGNO, R., BENNETT, B., "Nanostructure patterns written in III-V semiconductors by an atomic force microscope" <i>Applied Physics Letters</i> , 1997, 70(14):1855-1857.
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				Group Art Unit	1641
				Examiner Name	Unknown
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		MARSH, T.C., <i>et al.</i> , "G-wires: Self-assembly of a telomeric oligonucleotide, d(GGGGTTGGGG), into large superstructures" <i>Biochemistry</i> 1994, 33:10718-10724.
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		MENDOZA, <i>et al.</i> , "High-Throughput Microarray-Based Enzyme-Linked Immunosorbent Assay (ELISA)" <i>BioTechniques</i> , 1994, 27(4):778-788.
		MEYER, G. and N.M. AMER, "Novel optical approach to atomic force microscopy" <i>Appl. Phys. Lett.</i> , 1988, 53:1045-1047.

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		MINNE, <i>et al.</i> , "Centimeter scale atomic force microscope imaging and lithography" <i>Applied Physics Letters</i> , 1998, 73(12):1742-1744.
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		MURRAY, <i>et al.</i> , "Atomic force microscopy of biochemically tagged DNA" <i>Proc., Natl., Acad. Sci.</i> , 1993, 90:3811-3814.
		MUSIL, C., "Nanostructuring of gold electrodes for immunosensing applications: <i>J. Vac. Sci. Technol. B.</i> , 1995, 13(6):2781-2786.
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		PAWELETZ, <i>et al.</i> , "Reverse phase protein microarrays which capture disease progression shoe activation of pro-survival pathways at the cancer invasion front" <i>Oncogen</i> , 2001, 20:1981-1989.
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		PINER, Richard, "Effect of water on lateral force microscopy in air" <i>Langmuir</i> , 1997, 13:6864-6868.
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		RANKIN, P.C. WILSON, A.T. "The Surface Chemistry of the Mica-Aluminum-Sulfate System" <i>Journal of Colloid and Interface Science</i> , (1969) 30(3):277-282.
		REED, <i>et al.</i> , "Conductance of molecular junction" <i>Science</i> , 1997, 278:252-254.
		RIEF, <i>et al.</i> , "Reversible unfolding of individual Titin Ig-domains by AFM" <i>Science</i> , 1997, 276:1109-1111.
		RIEF, M., <i>et al.</i> , "Single Molecule Force Spectroscopy on Polysaccharides by Atomic Force Microscopy" <i>Science</i> , 1997, 275:1295-1297.
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		SASTRY, <i>et al.</i> , "Formation of patterned hetrocolloidal nanoparticle thin films" <i>Langmuir</i> , 2000, 16:3553-3556.
		SCHAUS, S., <i>et al.</i> , "Cell Viability and Probe-Cell Membrane Interactions of XR1 Glial Cells Imaged by Atomic Force Microscopy" <i>Biophysical Journal</i> , September 1997, 73:1205-1214.

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				Application Number	10/541,013
				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	21	of	28	Attorney Docket Number	016348-9048-US00

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		SCHENA, <i>et al.</i> , "Parallel human genome analysis : Microarray-based expression monitoring of 1000 genes" <i>PNAS USA</i> , 1996, 93:10614-10619.
		SCHENA, M., <u>Microarray Biochip Technology</u> , Eaton Publishing, Natick, MA 2000.
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		SHEEHAN, <i>et al.</i> , "Thiol diffusion and the role of humidity in "dip pen" nanolithography" <i>Physical Review Letters</i> , 15 April 2002, 88(15):156104-1-156104-4.
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		SHERMAN, Chemical Vapor Deposition For Microelectornices: Principles, Technology and Applications (Noyes, Park Ridges, NJ, 1987).
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		SONDAG-HUETHORST, <i>et al.</i> , "Generation of electrochemically deposited metal patterns by means of electron beam (nano)lithography of self-assembled monolayer resists" <i>Appl. Phys. Lett.</i> 1994, 64(3):285-287.
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		TANG, K., FU, D., <i>et al.</i> , "Matrix-assisted laser desorption/ionization mass spectrometry of immobilized duplex DNA probes" <i>Nucleic Acids Research</i> , 1995, 23(16):3126-3131.
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		TROUGHTON, E., BAIN, C., <i>et al.</i> , "Monolayer films prepared by the spontaneous self-assembly of symmetrical and unsymmetrical dialkyl sulfides from solution onto gold substrates: Structure, properties and reactivity of constituent functional groups" <i>Langmuir</i> , 1988, 4:365-385.
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		ULMAN, Abraham, "Formation and structure of self-assembled monolayers" <i>Chem. Rev.</i> , 1996, 96:1533-1554.
		ULMAN, An Introduction To Ultrathin Organic Films: From Langmuir-Blodgett to Self-Assembly (Academic, Boston 1991) (Alkanethiols on gold).

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		VESENKA, J. <i>et al.</i> , "A substrate preparation for reliable imaging of DNA molecules with the scanning force microscope" <i>Ultramicroscopy</i> , 1992, 42-44:1243-1249.
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		VESENKA, J., <i>et al.</i> , "Combining optical and atomic force microscopy for life sciences research" <i>BioTechniques</i> , 1995, 19(2):240-253.
		VETTIGER, <i>et al.</i> , "Ultrahigh density, high-data-rate NEMS-based AFM data storage system" <i>Microelectronic Engineering</i> , 1999, 46:11-17.
		VEZENOV, Dmitri, "Force titrations and ionization state sensitive imaging of functional groups in aqueous solutions by chemical force microscopy" <i>J. Am. Chem. Soc.</i> , 1997, 119:2006-2015.
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		WANG, <i>et al.</i> , "Nanometer scale patterning and pattern transfer on amorphous Si, crystalline Si, and SiO ₂ surfaces using self-assembled monolayers" <i>Appl. Phys. Lett.</i> , 1997, 70(12):1593-1595.
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		WILLIAMSON, <i>et al.</i> , "G-quartets in biology: Reprise" <i>PNAS USA</i> , 15 April 1993, 90(8):3124-3124.
		WILLIAMSON, <i>et al.</i> , "Monovalent cation-induced structure of telomeric DNA: The G-quartet model" <i>Cell</i> , 1989, 59(5):871-880.
		WILSON, <i>et al.</i> , "Surface organization and nanopatterning of collagen by dip-pen nanolithography" <i>PNAS</i> , November 20, 2001, 98(24):13660-13664.
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		WONG, S., <i>et al.</i> , "Functionalization of carbon nanotube AFM probes using tip-activated gases" <i>Chem Physics Letters</i> , 1999, 306:219-225.
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		XIA, <i>et al.</i> , "Unconventional methods for fabricating and patterning nanostructures" <i>Chem. Rev.</i> , 1999, 99:1823-1848.
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		YAN, <i>et al.</i> "Patterning a performed, reactive SAM using microcontact printing" <i>J. Am. Chem. Soc.</i> , 1998, 120:6179-6180.
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		ZHU, <i>et al.</i> , "Analysis of yeast protein kinases using protein chips" <i>Nature Genetics</i> , 2000, 26:283-289.
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